




# William Park

 williampark.site

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## technical strengths

### Languages

Python, JavaScript, C++, HTML, CSS

### Technologies

React, Node.js, Express.js,  
MongoDB, Git, React Native,  
Postman, TensorFlow

### Interests

Web development, AI,  
Mobile development,  
Firmware

## awards

### President's Scholarship of Distinction

*University of Waterloo*

Awarded to students with an admission average of 95% or higher.

### Nortel Networks

### Undergraduate Scholarship

*University of Waterloo*

Awarded to outstanding students entering year one of electrical and computer engineering.

## education

### University of Waterloo

*2019 to Present*

BASc Computer Engineering

## work experience

### Software Developer in Test | 360 Education Labs Inc

January 2020 to April 2020

- Executed **automation tests** using **Selenium WebDriver** and **debugged test cases**, improving the efficiency of the testing workflow by **10%**.
- Performed analysis, reporting, and resolution on **Pivotal Tracker tickets** regarding ongoing web, desktop, and mobile application systems.
- Recommended **design and functionality aspects** for application features during daily SCRUM meetings to **meet client needs and specifications**.

## personal projects

### Flicker

<https://github.com/williamhpark/movie-tinder.git>

- Championed the development of the web application's front end, **establishing an interactive UI using React** and styling components with **CSS**.
- Architected an **internal API with Node.js** to **validate user authentication** and provide a channel for the front end to access data stored in **MongoDB**.
- Reviewed pull requests on a shared **Github** repository to **restructure inefficiencies** and **improve programming style**.

### Personal Portfolio Website

<https://github.com/williamhpark/personal-website-public.git>

- Developed a **full-stack** personal portfolio website using the **MERN stack** to display projects/hobbies and host a blog.
- Integrated the **GridFS specification** into the **Node.js back end** to store large digital assets in **MongoDB** and serve them to the front end.

### Automated Ping-Pong Ball Launcher

[https://github.com/williamhpark/ping\\_pong\\_launcher.git](https://github.com/williamhpark/ping_pong_launcher.git)

- Constructed a launching mechanism using **brushed DC motors** connected to an **L293D motor driver** to manage their speed and spinning direction.
- Wrote and uploaded code to an **Arduino microcontroller**, using **C++** and the **Arduino IDE**, to control the feeding system and **automate** ball distribution.

## extracurriculars

### SHAD Fellow | SHAD Program

June 2018 to July 2018

- Earned the SHAD Fellow designation after being **nominated** to attend the award-winning **STEM and entrepreneurship program**.
- Created a **design and business model** for an emergency evacuation kit to help increase resilience against wildfires, placing **third** in competition.